



PTO/SB/08a (05-03)

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Substitute for form 1449A/PTC

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 3

<i>Compl t if Known</i>	
Application Number	10/025,528
Filing Date	December 18, 2001
First Named Inventor	Joakim O. Blanch
Art Unit	3663
Examiner Name	Nelson Moskowitz
Attorney Docket Number	1391-26800

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			

NELSON MCGRATH, JR.
PRIMARY EXAMINER

Date
Considered

5/14/04

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NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹
	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
U	Alan Brie et al., "New Directions in Sonic Logging"; Spring 1998, (pp. 40-55); Oilfield Review
	Batakrishna Mandal, "Shear wave Anistropy from Single Dipole Source" (undated)
	Chung Chang et al.; "Localized Maps of the Subsurface," (pp. 56-66) Spring 1998; Oilfield Review
	G. Brewton, "The Geology of the Skinner, Bartlesville and Miesner Sandstones in Well DM21A At Catoosa"; Amoco publication, Nov. 1996
	B. A. Auld, "Acoustic Fields and Waves in Solids", Vol. I (pp. 68-423), A Wiley-Interscience Publication
	K. Koster et al., "Dipole Shear Anistropy Logging", Amoco Publication SL3.7 (pp. 1139-1142)
	"Faults and Faulting", EAS-A193 Class Notes, SLU (9 pp.)
	"Seismic Waves and Earth's Interior", EAS-A193 Class Notes, SLU (13 pp.)
	Dr. Daniel A. Ruselle, "Sound Fields Radiated by Simple Sources", Kettering University (4 pp.)
✓	N. Cheng et al., "Borehole Geophysics I: Well Logging; Decomposition and particle motion of acoustic dipole log in anisotropic formation; Earth Resources Lab MIT

Examiner Signature	NELSON MOSKOWITZ	Date Considered	5/14/04
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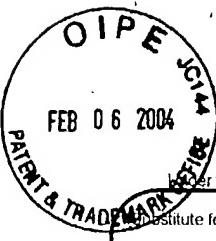
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Attorney Docket Number 1391-26800	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
~		J.O. Blanch et al., "A Method to Extract Fast and Slow Shear Wave Velocities in an Anisotropic Formation; SEG International Exposition and 72nd Annual Meeting, 10/11/02	
w		P. Carrion et al., "Source wavelet and its angular spectrum from plane-wave seismograms", geophysics, Vol. 55, No. 8 (Aug. 1990), pp. 1026-2035	
v		Chuen Hon Cheng et al., "Elastic wave propagation in a fluid-filled borehole and synthetic acoustic logs", Geophysics, Vol. 46, No. 7 (July 1981), pp. 1042-1053	
✓		L. Thomsen, "Reflection seismology over azimuthally anisotropic media;, Geophysics, Vol. 53, No. 3 (March 1988), pp. 304-313	

Examiner Signature	NELSON MOSKOWITZ PRIMARY EXAMINER	Date Considered	5/14/04
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8

Stylesheet Version v18.0

Title of Invention	Acoustic Logging Apparatus and Method													
Application Number:	10/025528 *10/025528*													
Confirmation Number:	6433													
First Named Applicant:	Joakim Blanch													
Attorney Docket Number:	139126800													
Art Unit:	3663													
Examiner:	Nelson Moskowitz													
Search string:	(4794572 or 4803666 or 4817061 or 4888743 or 4903244 or 4933913 or 5027332 or 5029146 or 5136554 or 5214613 or 6188961 or 6098021 or 6526354 or 4789969 or 4648039 or 4951267 or 5398215 or 4995008 or 5999486 or 5835452).pn.													
US Patent Documents														
Note: Applicant is not required to submit a paper copy of cited US Patent Documents														
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass							
✓	1	4794572	1988-12-27	Sondergeld		367	31							
	2	4803666	1989-02-07	Alford										
	3	4817061	1989-03-28	Alford et al.										
	4	4888743	1989-12-19	Thomsen										
	5	4903244	1990-02-20	Alford										
	6	4933913	1990-06-12	Thomsen										
	7	5027332	1991-06-25	Alford										
	8	5029146	1991-07-02	Alford										
	9	5136554	1992-08-04	Thomsen et al.										
✓	10	5214613	1993-05-25	Esmersoy										
✓	11	6188961	1991-02-13	Mandal										

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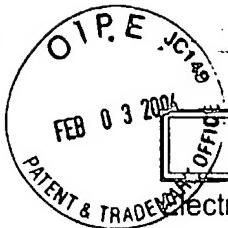
	12	6098021	2000-08-01	Tang et al.
	13	6526354	2003-02-25	Bose et al.
	14	4789969	2008-12-06	Naville
	15	4648039	1987-03-03	Devaney et al.
	16	4951267	1990-08-21	Chang et al.
	17	5398215	1995-03-14	Sinha et al.
	18	4995008	1991-02-19	Hornbostel et al.
	19	5999486	1999-12-07	DeVault
	20	5835452	1998-11-19	Mueller et al.

Signature

Examiner Name	Date
	5/14/04

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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Acoustic Logging Apparatus and Method																																																																																																																												
Application Number:	10/025528																																																																																																																												
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<h3>US Patent Documents</h3> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>1</td><td>4794572</td><td>1988-12-27</td><td>Sondergeld</td><td></td><td>367</td><td>31</td><td></td></tr><tr><td>2</td><td>4803666</td><td>1989-02-07</td><td>Alford</td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td>4817061</td><td>1989-03-28</td><td>Alford et al.</td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td>4888743</td><td>1989-12-19</td><td>Thomsen</td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td>4903244</td><td>1990-02-20</td><td>Alford</td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td>4933913</td><td>1990-06-12</td><td>Thomsen</td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td>5027332</td><td>1991-06-25</td><td>Alford</td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>5029146</td><td>1991-07-02</td><td>Alford</td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td>5136554</td><td>1992-08-04</td><td>Thomsen et al.</td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td>5214613</td><td>1993-05-25</td><td>Esmersoy</td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td>6188961</td><td>1991-02-13</td><td>Mandal</td><td></td><td></td><td></td><td></td></tr><tr><td>12</td><td>6098021</td><td>2000-08-01</td><td>Tang et al.</td><td></td><td></td><td></td><td></td></tr><tr><td>13</td><td>6526354</td><td>2003-02-25</td><td>Bose et al.</td><td></td><td></td><td></td><td></td></tr><tr><td>14</td><td>4789969</td><td>2008-12-06</td><td>Naville</td><td></td><td></td><td></td><td></td></tr></tbody></table>						init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	1	4794572	1988-12-27	Sondergeld		367	31		2	4803666	1989-02-07	Alford					3	4817061	1989-03-28	Alford et al.					4	4888743	1989-12-19	Thomsen					5	4903244	1990-02-20	Alford					6	4933913	1990-06-12	Thomsen					7	5027332	1991-06-25	Alford					8	5029146	1991-07-02	Alford					9	5136554	1992-08-04	Thomsen et al.					10	5214613	1993-05-25	Esmersoy					11	6188961	1991-02-13	Mandal					12	6098021	2000-08-01	Tang et al.					13	6526354	2003-02-25	Bose et al.					14	4789969	2008-12-06	Naville				
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